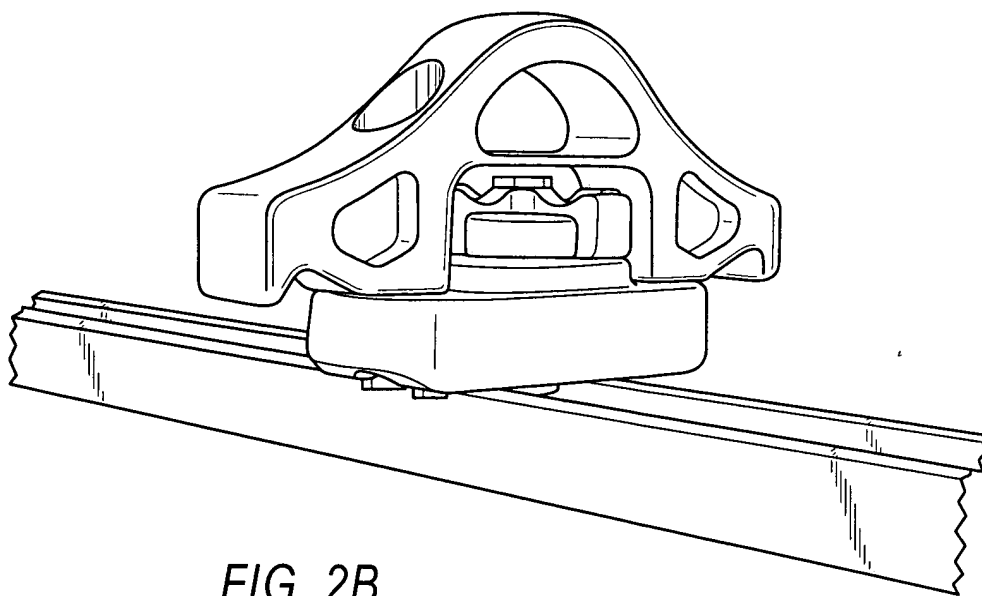
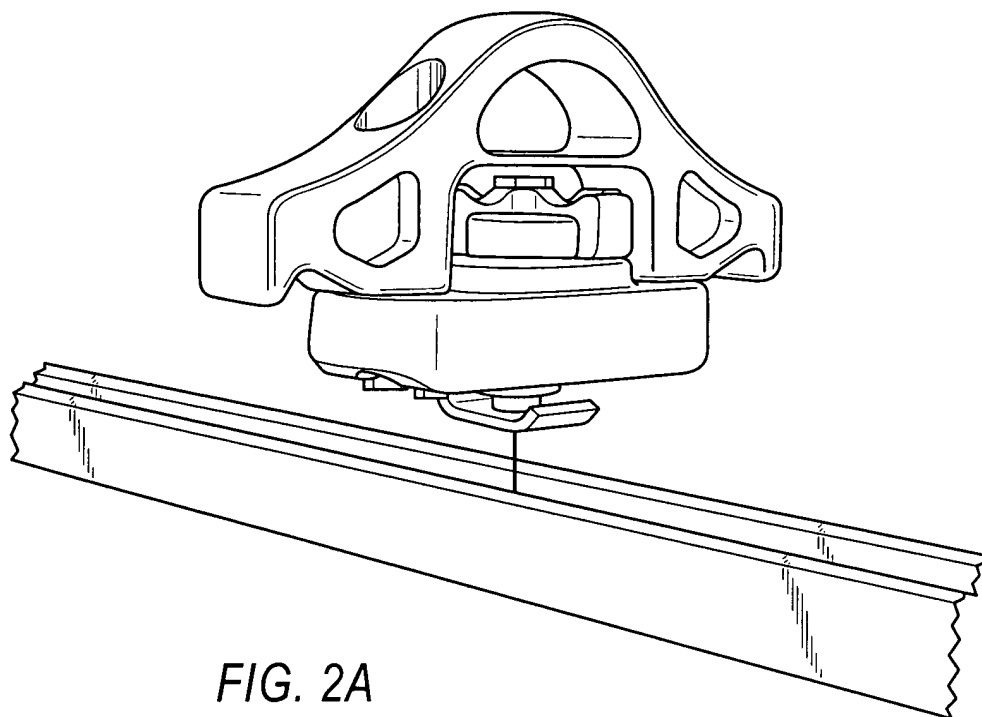


FIG. 1



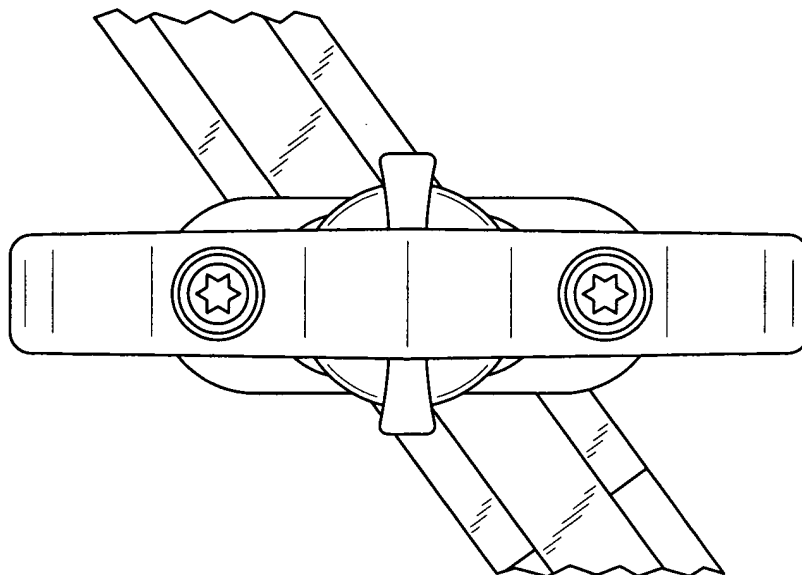


FIG. 2C

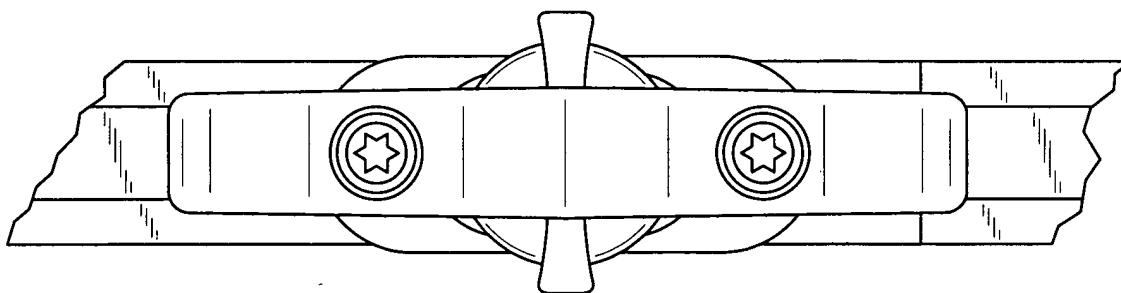


FIG. 2D

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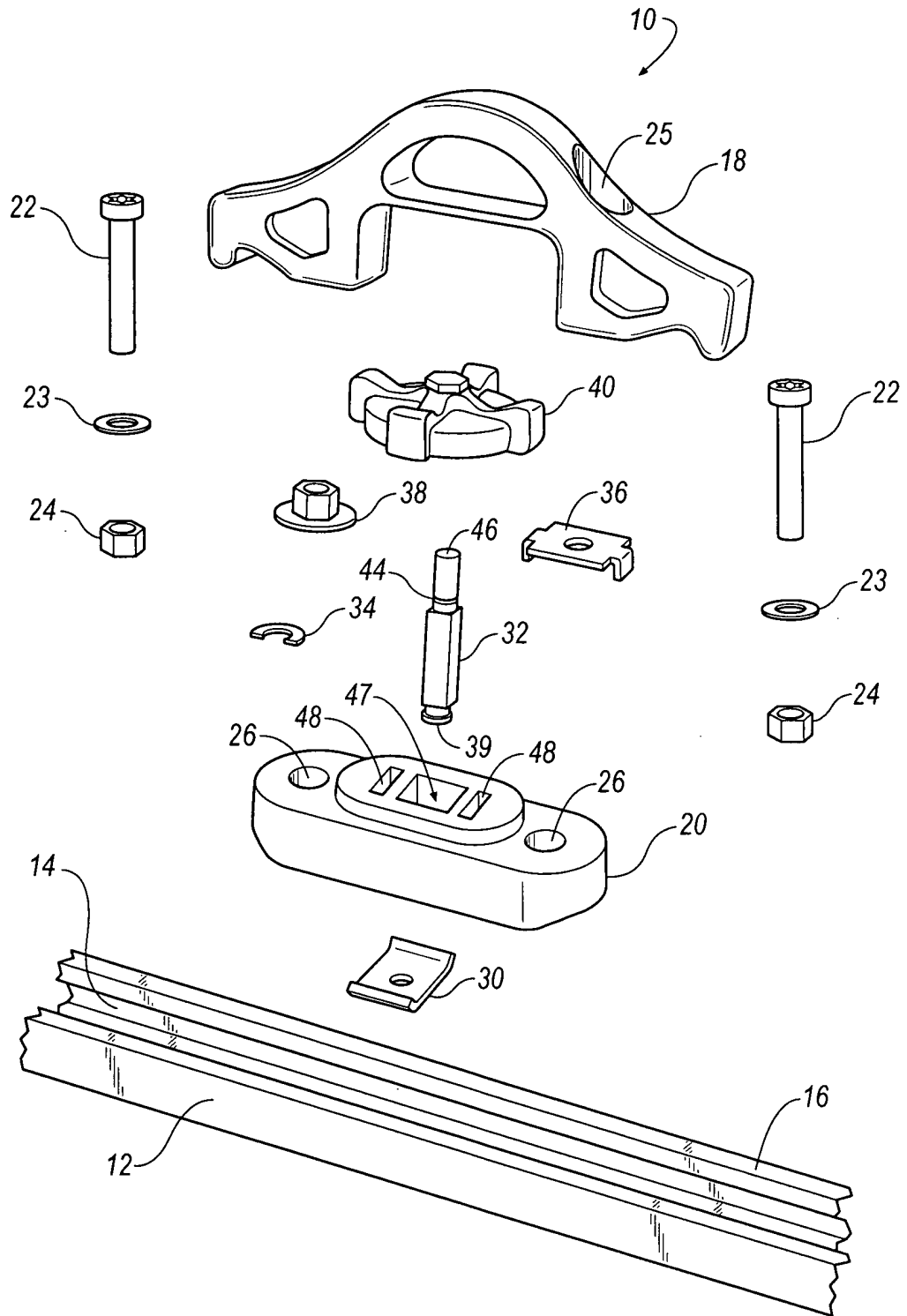


FIG. 3

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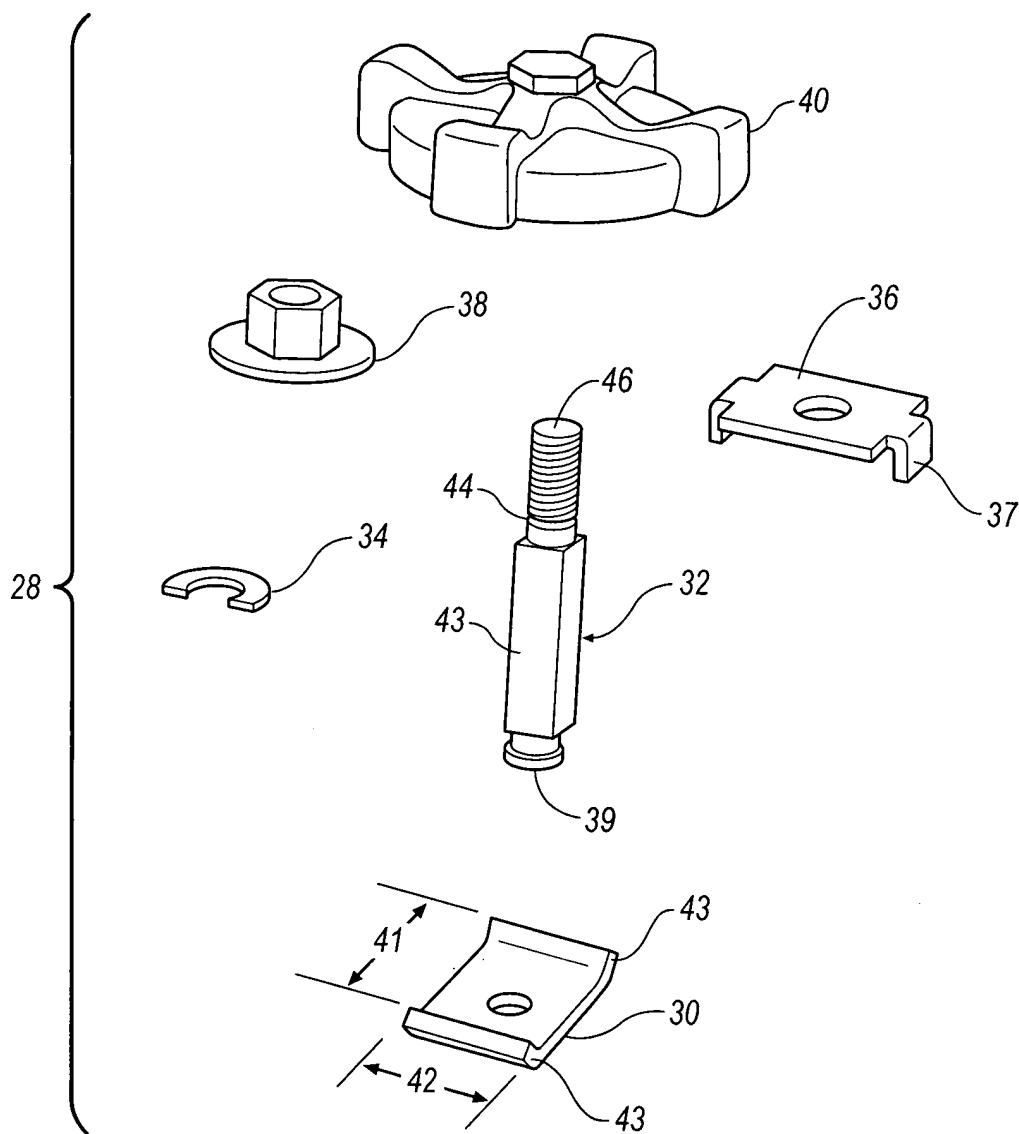


FIG. 4

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| Label | Part Name | Material | Yield Strength | Ultimate/ Tensile Strength | Elongation | Poisson's Ratio | E |
|-------|----------------|----------------------------|----------------|-------------------------------|---------------------|-----------------|-----------|
| 18 | Tie Down | Aluminum A413 | 131 Mpa | 290 Mpa | 3.5 (% in 2") | 0.33 | 75.8 Gpa |
| 40 | Thumb Wheel | Aluminum A413 | 131 Mpa | 290 Mpa | 3.5 (% in 2") | 0.33 | 75.8 Gpa |
| 20 | Base Plate | Aluminum A413 | 131 Mpa | 290 Mpa | 3.5 (% in 2") | 0.33 | 75.8 Gpa |
| 38 | Nut/Washer Asm | Nut - 1010 - 1020 Steel | 303 Mpa | 365 Mpa | 20 (% in 2") | 0.29 | 203.3 Gpa |
| | | Washer - 1050 Spring Steel | 579 Mpa | 689 Mpa | 12 (% in 2") | 0.29 | 203.3 Gpa |
| 36 | Thrust Washer | S.S. 302 - 304 | 276 Mpa | 568 Mpa | 1.67 (frac. strain) | 0.28 | 189.6 Gpa |
| 32 | Pin | S.S. 302 - 304 | 276 Mpa | 568 Mpa | 1.67 (frac. strain) | 0.28 | 189.6 Gpa |
| 30 | Lock Plate | S.S. 302 - 304 | 276 Mpa | 568 Mpa | 1.67 (frac. strain) | 0.28 | 189.6 Gpa |
| 22 | Bolt - 8mm | S.S. 302 - 304 | 276 Mpa | 568 Mpa | 1.67 (frac. strain) | 0.28 | 189.6 Gpa |
| 23 | Washer - 8mm | S.S. 302 - 304 | 276 Mpa | 568 Mpa | 1.67 (frac. strain) | 0.28 | 189.6 Gpa |
| 24 | Nut - 8mm | S.S. 302 - 304 | 276 Mpa | 568 Mpa | 1.67 (frac. strain) | 0.28 | 189.6 Gpa |
| 34 | Retainer | | | | | | |
| 12 | Bed Rail | T6 - 6063 Anodized Al | 213 Mpa | 241 Mpa | 12 (% in 2") | 0.35 | 70.3 Gpa |

FIG. 5

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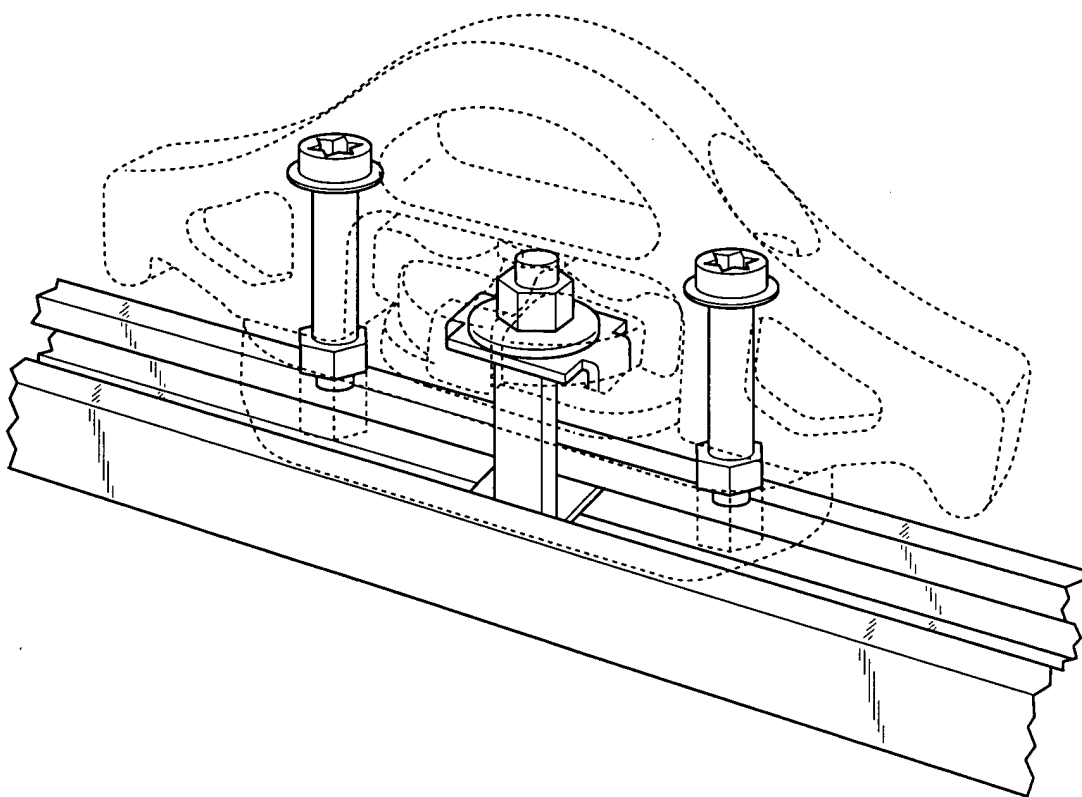


FIG. 7

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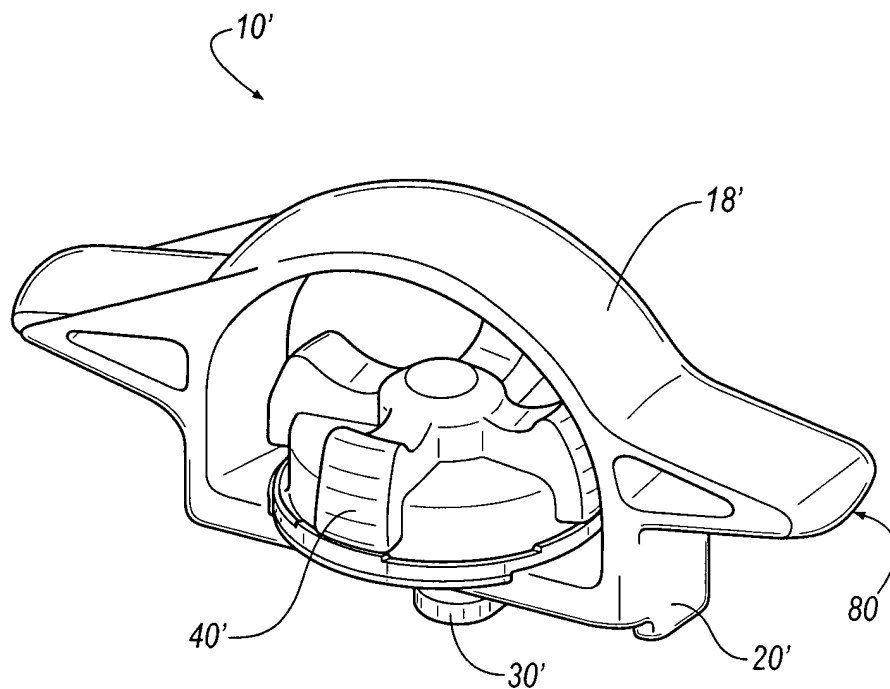


FIG. 8

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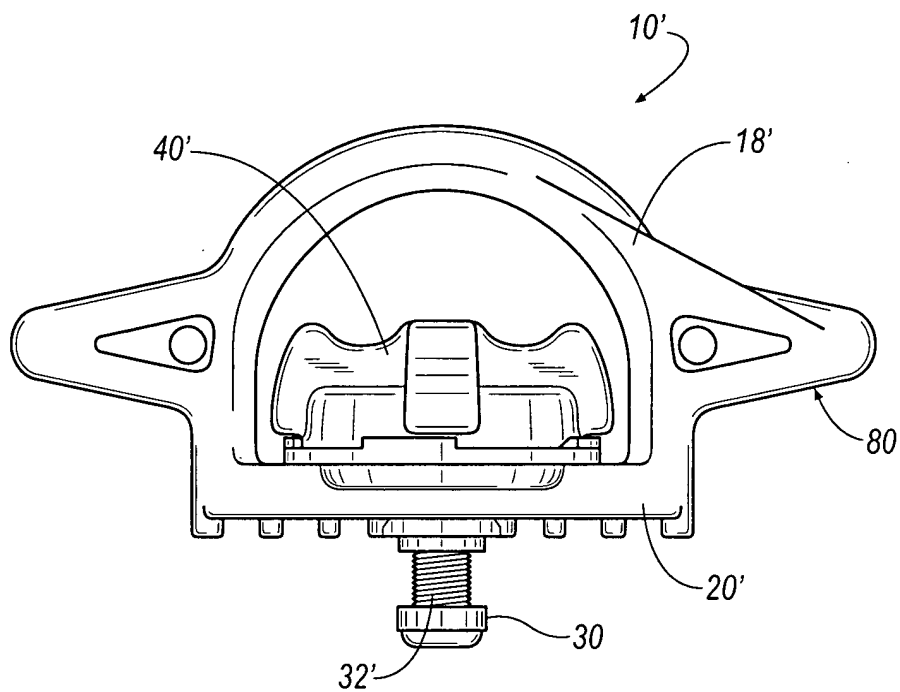


FIG. 9

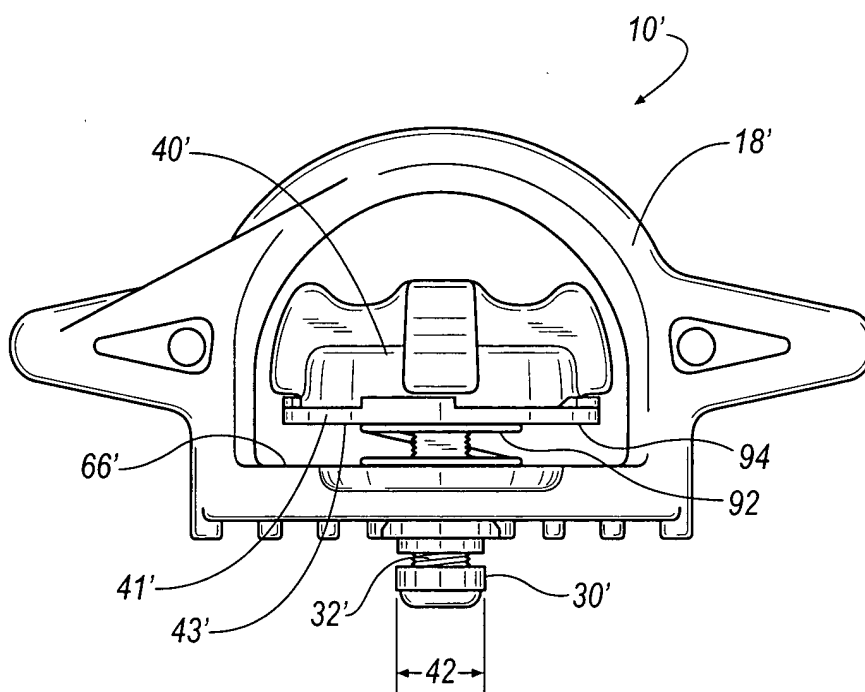


FIG. 10

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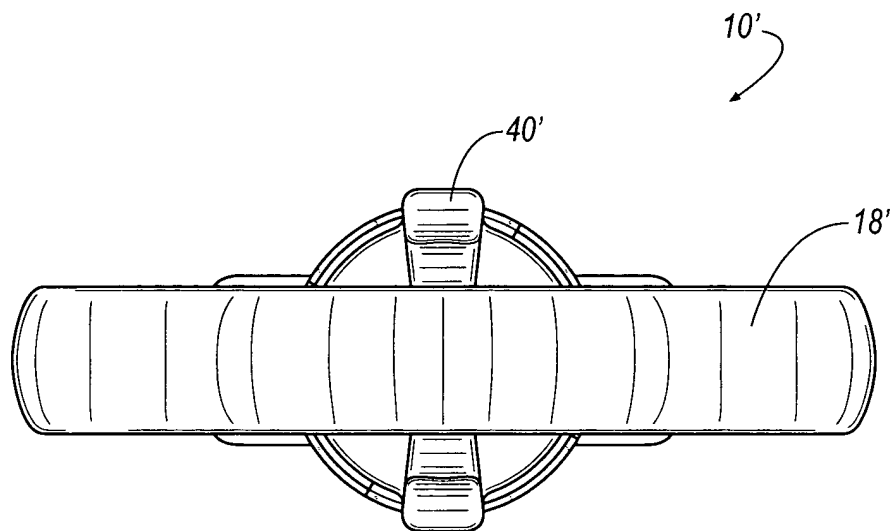


FIG. 11

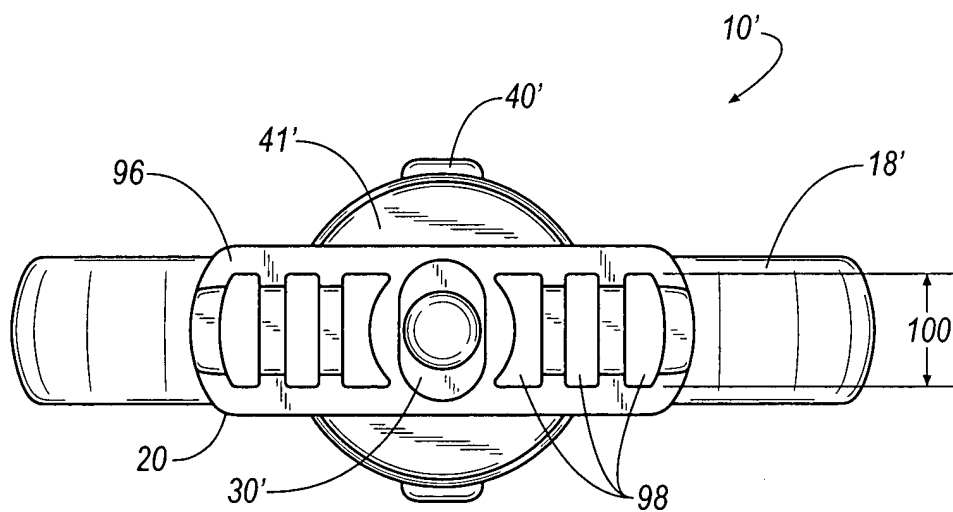


FIG. 12

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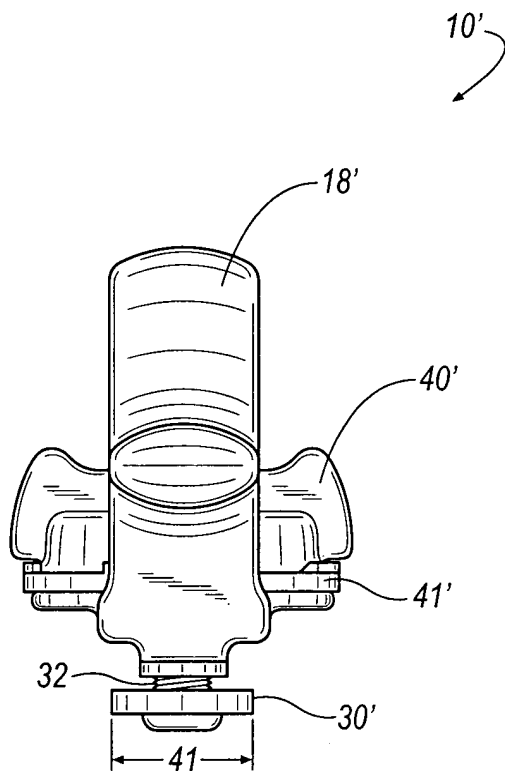


FIG. 13

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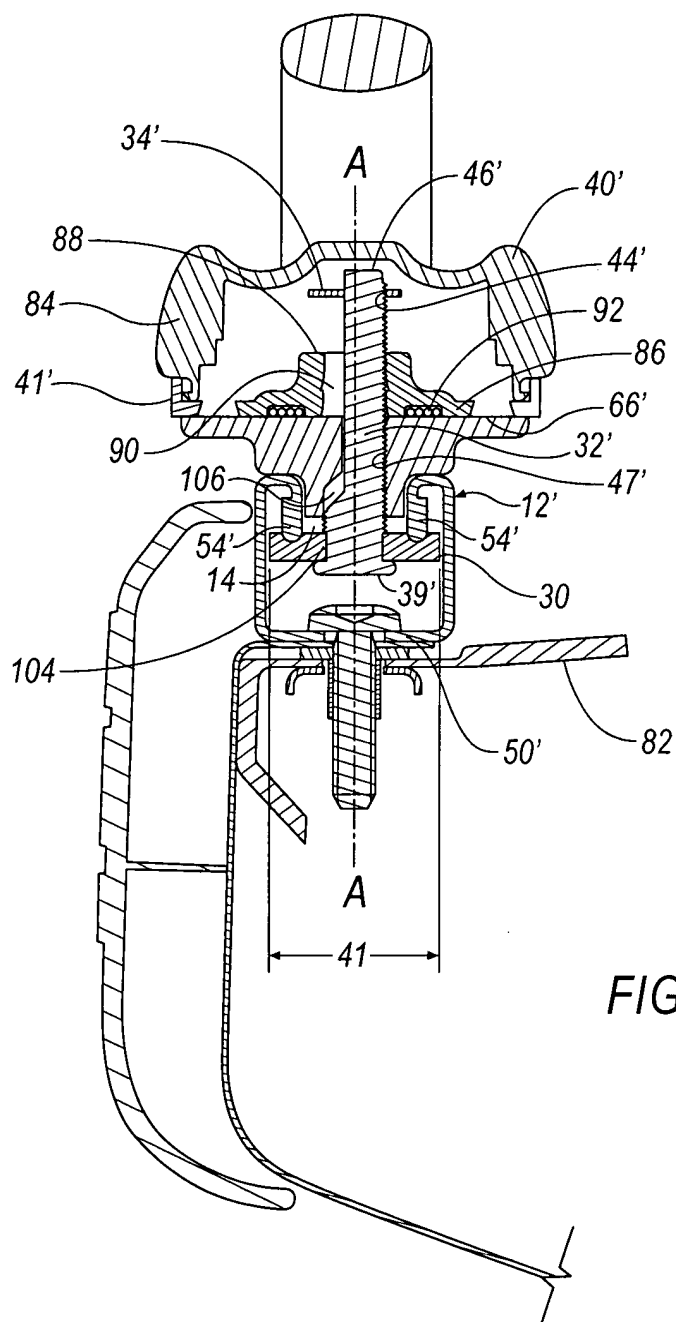


FIG. 14

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